

Abstract

An electro-luminescence display which obtains proper color realization even though identical data driving waveforms are applied to each group of R, G and B pixel cells. In the display, a plurality of data lines cross a plurality of gate lines to define a plurality of pixel cell areas. A plurality of power supply lines pass through the pixel cell areas. A switching device is provided in each pixel cell area in such a manner to be electrically connected to the gate line and the data line. A plurality of driving devices are patterned based on a ratio of channel width to channel length in accordance with the type of pixel cell area. Each driving device having a gate connected to one electrode of the switching device and a source connected to the power supply line at each of the pixel cell areas. A plurality of EL diodes are connected to the plurality of driving devices, respectively. A wiring is commonly connected to the plurality of power supply lines. The R, G and B pixel cells are independently driven using different currents, although a common voltage is received by the driving devices.

09567003-092100